March 11, 2020

Building 10/FAES room 6 (B1C208) 1:00pm

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	Tish Murphy, Systems Biology Center, Chair ACUC
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	James Hawkins, Animal Program Division, APD
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hora	Absent
	ADSCIIC ed by agreement
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Redacte	ed by agreement
No	ew Protocols
1.	(b)(5)
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*	This protocol was Tabled and the decision was unanimous to review the
	modifications/changes by the Designated Member Review (DMR) process. T.
	Murphy and J. Hawkins will conduct the DMR. The modifications needed to secure
	final approval are:
*	Stipulations:
	(b)(5)

B. Protocols Submitted for Renewal

I. Redacted by agreement Examination of knockout and transgenic mice to define the role of complement proteins in the immune response, Claudia Kemper. Request for 60-day reapproval.

	*	This protocol was unanimously Approved as written.
C.	1. * 2.	Amendment #16 to Redacted by agreement This amendment was unanimously Approved as written. Redacted by agreement This amendment was unanimously Approved as written. Redacted by agreement This request is for an Exemption to the Guide for just this one animal for a defined time period of 30 days. The current ICU cage size is limited to a 10 kg animal. The animal is able to fully stand and move around fully. The PI will report to Dr. Hawkins when the study is finished and the monkey is back into a larger cage. This amendment was Approved unanimously with the following Administrative change: Section F: The PI clarified that the animal is able to fully stand and move around. Changed "small in size" to "small in stature" to better describe that the animal
D.		is short and chubby. otocols Approved at the February 12 th Meeting None.
Е.	Sin	otocols Tabled for Designated Review With Subsequent Revision and Approval ace the February 12 th Meeting None.
F.		otocols Tabled for Re-Review at Next Convened Meeting None.
G.	_	Amendment #36 to agreement Behavioral and Molecular Correlates of a Mouse model of Radiation-Induced Fatigue.
Н.	and	gnificant Modifications Tabled for Designated Review With Subsequent Revision d Approval Since the February 12 th Meeting None.
I.	Fel	Amendment #3 to Redacted by agreement One knockin mouse line was added. Amendment #1 to Redacted by agreement One knockin mouse line was added. Amendment #1 to Redacted by agreement One knockin mouse line was added. Amendment #1 to Redacted by agreement One knockin mouse line was added. Amendment #1 to Redacted by Creation and breeding of genetically altered mice for studies of lipid, lipoprotein metabolism and atherosclerosis Redacted by agreement Four new

3	Amendment #3 to Redacted by agreement Mouse models for bone marrow failure syndromes and
٥.	Amendment #3 to agreement Mouse models for bone marrow failure syndromes and other hematological and non-hematological disorders Added a new
	experiment to study the effect of toll-like receptor ligands interleukin-6, on immunity
	and hematopoiesis.
4.	Amendment #32 to Redacted by Gene transfer into non-human primate hematopoietic
	cells, Redacted by agreement The use of Hydroxyurea (HU) therapy was added.
5.	Amendment #33 to Redacted by Gene transfer into non-human primate hematopoietic
٥.	cells, Redacted by agreement Updated Amendment 29 to include a broader dose scheduling for
	Calcium Chloride to counteract the administration of the anticoagulant citrate
	dextrose (ACD).
6.	Amendment #34 to Redacted by agreement Gene transfer into non-human primate hematopoietic
0.	cells, Redacted by agreement This amendment is to see whether pretreatment with an anti-CD
	154 (CD40L) monoclonal antibody (5C8) which blocks the CD40:CD40L pathways
7	will more effectively allow targeting of TFH cells by FN18. Amendment #1 to Reducted by Maintaining and characterizing several moves lines.
7.	Amendment #1 to Redacted by Amendment #1 agreement Maintaining and characterizing several mouse lines
	generated by the NTLBI Transgeme Core, 10 produce a moder
0	for ALGS, the lab will mutate one amino acid in the jagged1 gene.
8.	Amendment #2 to Redacted by agreement Maintaining and characterizing several mouse lines
	generated by the NHLBI Transgenic Core, Redacted by agreement Two mouse lines were
0	added.
9.	Amendment #6 to Redacted by Murine Models of Experimental Asthma, Redacted by Amendment #6 to Represent Murine Models of Experimental Asthma, Redacted by Representation of HDL isolated from
	ement Experiments to assess whether administration of HDL isolated from
	asthmatics and healthy individuals modifies lung cytokine production in recipient
10	mice following intranasal administration.
10.	Amendment #1 to Redacted by agreement Characterization of hematopoietic and pluripotent stem
Da	cells and their derivatives for the development of novel regenerative therapies. Redacted by agreement
176	Baculovirus was added as an additional gene transfer vector to deriver
	template DNA into target cells.
II.	Amendment #14 to Redacted by agreement Genetic Modifiers of Elastin Insufficiency,
	A low molecular-weight, gadolineum-based elastin-specific magnetic
	resonance contrast agent (ESMA), LMil 174 was added.
	nendments approved by Conditional Administrative Process by APD since the
	oruary 12 th Meeting Redacted by Redacted by
1.	Amendment#15 to agreement Stem Cells and Neuro-Vascular Development and
	Patterning Redacted by agreement Two mice strains will be transferred from John
	Hopkins.
2.	
	genes, Redacted by agreement general The euthanasia protocol for zebrafish was modified.
3.	Amendment #1 tolagreement Development and Regulation of Muscle Mitochondrial
	Networks, Redacted by agreement Three mice lines were added, ane a co-investigator was
	added.
4.	Amendment #6 to Redacted by agreement Studies of Meiotic Drive, Redacted by agreement A mice line was
	added.

J.

K.		nendments approved by Administrative Approval Process since the February 12 th
		eeting
	1.	Amendment #10 to Redacted by Agreement Gene transfer into non-human primate hematopoietic cells, One co-investigator was removed.
	2.	Amendment #14 to agreement Stem Cells and Neuro-Vascular Development and
		Patterning, Redacted by agreement One co-investigator was added.
	3.	Amendment #3 to Redacted by agreement agreement Improving NK cell homing and in-vivo tumor killing by media modification and/or genetic manipulation Redacted by agreement One co-investigator
		was removed.
	4.	Amendment #43 to Redacted by agreement agreement Chimerism Analysis and Stem Cell Transplantation for the Treatment of Sickle Cell Disease Redacted by agreement Two animal facility
		locations were added.
	5.	Amendment #24 to Redacted by agreement Examination of knockout and transgenic mice to define the role of complement proteins in the immune response, Redacted by agreement
		Three co-investigator were added.
L.		nual Reviews: Protocols to Be Continued with no anticipated changes for the ming year. Vote was Unanimous to Approve.
	. R	Redacted by
	1. a	greement Preparation of Cerebellar Purkinje cell cultures from embryonic and
		newborn mice.
	2.	Redacted by agreement Murine Model of Vein Grafting, Redacted by agreement
	3.	Functional Study of hGC-1 Gene knock-out Mouse Model, Redacted by Agreement
		Redacted by agreement
Μ.		nual Reviews: Protocols to Be Closed
	1.	None.
N T	D	Davidson
IN.		ogram Review
	1.	The updated NHLBI ACUC Policy for Review of Protocols &
	_	Amendments was reviewed and unanimously Approved.
	2.	The SOP: Emergency Plan For Mass Euthanasia of Rodents in the
		ACRF Tower, was reviewed and unanimously Approved.
	3.	Dr.Hawkins reported the preliminary pathology of a blood clot in the
		trachea of a monkey on Redacted by agreement Apheresis procedure was
		performed on 3/10/2020; animal found dead on 3/11/2020. The PI
		came to the ACUC meeting and discussed the issue – investigators did
		not notice any problems during the procedure; SpO2 was 100%; animal
		had a normal recovery for 1.5hr post-procedure.
o.	Ot	her Business
- •	•	AAALAC site visit to NIH will be June 15 to 19; NHLBI visit will be on Monday
	•	and Tuesday.
		und I debudy.

- The Meeting Minutes from February 12, 2020 were reviewed and unanimously Approved.
- ACUC Training opportunities:
 - a) May 18, 2020, Scientists Center for Animal Welfare (SCAW) IACUC Training Workshop, NIH Natcher, Bethesda, MD. https://scaw.com/iacuc-trainingworkshops/

Date of the Next Meeting:

April 8, 2020 Virtual: via WebEx 1:00pm

Members H	?resent
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	Present
	Dr. Tish Murphy, Systems Biology Center, Chair ACUC
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	Dr. James Hawkins, Animal Program Division, APD
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Guest	
	Redacted by agreement
Α.	New Protocols
	1. None.
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R	Protocols Submitted for Renewal
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	1. None
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C.	Protocols Requesting a Significant Modification
	1. Amendment #35 to Redacted by agreement Gene transfer into non-human primate hematopoietic
	cells, Redacted by agreement cells,
	This amendment was unanimously Approved with one Administrative change
	Administrative change:
	The Summary information was moved to Section F.
	2. Amendment #1 to Redacted by Electron microscopy of juvenile mouse heart, liver
	brain and skeletal muscle, Redacted by agreement
	This are a description of the control of the contro
	This amendment was unanimously Approved with one Administrative change
	agreement recused herself from the vote.
	Administrative change:
	 Section B: "time pregnant" was added.

D. Protocols Approved at the March 11th Meeting

1. None.

and Patterning, Redacted by agreement 2. Amendment #2 to Redacted by Chimeric Antigen Receptor T-cell (CAR-T) therap in non-human primates, Redacted by agreement H. Significant Modifications Tabled for Designated Review With Subsequent Revision and Approval Since the March 11th Meeting 1. None.	E.	Protocols Tabled for Designated Review With Subsequent Revision and Approval Since the March 11 th Meeting 1. None.
1. Amendment #16 to Readacted by agreement 2. Amendment #2 to Readacted by Chimeric Antigen Receptor T-cell (CAR-T) therage in non-human primates, Redacted by Agreement 2. Amendment #2 to Readacted by Chimeric Antigen Receptor T-cell (CAR-T) therage in non-human primates, Redacted by Agreement 3. None. H. Significant Modifications Tabled for Designated Review With Subsequent Revision and Approval Since the March 11th Meeting 3. None. I. Amendments approved by Designated Member Review per ACUC Policy sin the March 11th Meeting 4. Amendment #1 to Readacted by Byself Training of Veterinary Support Personnel and Investigators — Rats, Redacted by Agreement 4. Amendment #37 to Readacted by Signaling Pathways, Redacted by Agreement 4. Amendment #11 to Repetency Investigating the genetic mechanisms of cardiovascular diseases and cancer, Agreement 4. Amendment #5 to Readacted by Genetic Malysis of ADP-ribosylhydrolase 3 (ARH3) and Tuberous Sclerosis Complex 2 (TSC2) knockout mouse, Redacted by Signement Malysis of ADP-ribosylhydrolase 3 (ARH3) and Tuberous Sclerosis Complex 2 (TSC2) knockout mouse, Redacted by Redacted by Agreement Redacted by Agreement Malysis of ADP-ribosylhydrolase 3 (ARH3) and Tuberous Sclerosis Complex 2 (TSC2) knockout mouse, Redacted by Redacted by Agreement Redacted by Agreement Redacted by Agreement Redacted by Redacted by Agreement Redacted by Agreement Redacted by Re	F.	
Revision and Approval Since the March 11 th Meeting 1. None. 1. Amendments approved by Designated Member Review per ACUC Policy sin the March 11 th Meeting 1. Amendment #1 to Redacted by Jagreement 2. Amendment #3 to Redacted by Jagreement 2. Amendment #37 to Redacted by Jagreement 3. Amendment #11 to Redacted by Jagreement 3. Amendment #11 to Redacted by Jagreement 4. Amendment #5 to Redacted by Jagreement 4. Amendment #5 to Redacted by Jagreement 5. Amendment #5 to Redacted by Jagreement 6. Amendment #34 to Redacted by Jagreement 6. Amendment #7 to Redacted by Jagreement 7. Amendment #1 to Redacted by Jagreement 8. Amendment #1 to Redacted by Jagreement 9. Amendment #1 to Redacted by Jagreement 10. Amendment #3 to Redacted by Jagreement 11. Amendment #3 to Redacted by Jagreement 12. Redacted by Jagreement 13. Amendment #3 to Redacted by Jagreement 14. Amendment #3 to Redacted by Jagreement 15. Amendment #3 to Redacted by Jagreement 16. Amendment #3 to Redacted by Jagreement 17. Amendment #3 to Redacted by Jagreement 18. Amendment #3 to Redacted by Jagreement 19. Amendment #3 to Redacted by Jagreement 10. Amendment #3 to Redacted by Jagreement 11. Amendment #15 to Redacted by Jagreement 12. Amendment #15 to Redacted by Jagreement 13. Amendment #15 to Redacted by Jagreement 14. Amendment #15 to Redacted by Jagreement 15. Amendment #15 to Redacted by Jagreement 16. Amendment #15 to Redacted by Jagreement 17. Amendment #15 to Redacted by Jagreement 18. Amendment #15 to Redacted by Jagreement 19. Amendment #15 to Redacted by Jagreement 19. Amendment #15 to Redacted by Jagreement 10. Amendment #15 to Redacted by Jagreement 11. Amendment #15 to Redacted by Jagreement 12. Amendment #15 to Redacted by Jagreement 13. Amendment #15 to Redacted by Jagreement 14. Amendment #15 to Redacted by Jagreement 15. Ame	G.	 Amendment #16 to Redacted by agreement Stem Cells and Neuro-Vascular Development and Patterning, Redacted by agreement Amendment #2 to Redacted by agreement Chimeric Antigen Receptor T-cell (CAR-T) therapy
the March 11 th Meeting 1. Amendment #1 to Redacted by agreement 2. Amendment #37 to Redacted by agreement 2. Amendment #37 to Redacted by Analysis of Transgenic and Knockout Mice for the Study of Cytokine Signaling Pathways, Redacted by agreement 3. Amendment #11 to Redacted by Investigating the genetic mechanisms of cardiovascular diseases and cancer, Redacted by Redac	Н.	Revision and Approval Since the March 11th Meeting
12. Amendment #25 to Redacted by agreement green agreement, Examination of knockout and transgenic mice to define the role of complement proteins in the immune response, agreement	I.	1. Amendment #1 to Redacted by agreement 2. Amendment #37 to Redacted by agreement 2. Amendment #37 to Redacted by Analysis of Transgenic and Knockout Mice for the Study of Cytokine Signaling Pathways, Redacted by agreement 3. Amendment #11 to Redacted by Investigating the genetic mechanisms of cardiovascular diseases and cancer, Redacted by Analysis of ADP-ribosylhydrolase 3 (ARH3) and Tuberous Sclerosis Complex 2 (TSC2) knockout mouse, Redacted by Analysis of ADP-ribosylhydrolase 3 (ARH3) and Tuberous Sclerosis Complex 2 (TSC2) knockout mouse, Redacted by Redacted by Analysis of ADP-ribosylhydrolase 3 (ARH3) and Tuberous Sclerosis Complex 2 (TSC2) knockout mouse, Redacted by Redacted by Analysis of ADP-ribosylhydrolase 3 (ARH3) and Tuberous Sclerosis Complex 2 (TSC2) knockout mouse, Redacted by

I.

	13. Amendment #7 to agreement Mouse Models of Glycogen Storage Disease Type II: Characterization and Therapy, Redacted by agreement Redacted by agreement
	14. Amendment #7 to Redacted by agreement Studies of Meiotic Drive, Redacted by agreement
J.	Amendments approved by Conditional Administrative Process by APD since the March $11^{\rm th}$ Meeting
	1. None.
K.	Amendments approved by Administrative Approval Process since the March 11 th
	Meeting
	1. None.
L.	Annual Reviews: Protocols to Be Continued with no anticipated changes for the coming year. Vote was Unanimous to Approve. 1. Redacted by agreement ACUC Animal Holding Protocol, Redacted by agreement Analysis of transgenic and knockout mice for the study of function of the chromatin-remodeling enzymes, Redacted by agreement Murine Models of Experimental Asthma, Redacted by agreement Mechanisms of dyslipidemia and atherosclerosis formation in Hamsters, Redacted by agreement
Μ.	Annual Reviews: Protocols to Be Closed
	1. Redacted by agreement CARS imaging of vascular permeability barriers, CARS imaging of vascular permeability barriers,
N.	Program Review
	Program Review 1. Reviewed the Semiannual Program Review and Facility Inspection Checklist
	Program Review 1. Reviewed the Semiannual Program Review and Facility Inspection Checklist 2. Reviewed and accepted the "Semiannual Report: Animal Care & Use Program
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O. Other Business

- AAALAC site visit to NIH has been postponed until the Fall (October).
- FOIA received by NEI for reportable concerns.

 Minutes from March 11th ACUC meeting were Approved.

Date of the Next Meeting:

The date of the next meeting will be held on May 13, 2020 at 1:00 pm

May 13, 2020 Virtual: via WebEx 1:00pm

Members Present

Dr. James Hawkins, Animal Program Division, APD Tedadcted by agreement Tedacted by agreement Redacted by agreement New Protocols 1. □ □ □ □ □ This protocol was Tabled and the decision was unanimous to review the modifications/changes by the Designated Member Review (DMR) process. T. Murphy and J. Hawkins will conduct the DMR. The modifications needed to secure final approval are: Stipulations: □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Redacted	Tish Murphy, Systems Biology Center, Chair ACUC
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Murphy and J. Hawkins will conduct the DMR. The modifications needed to secure final approval are: <u>Stipulations:</u>	•	
final approval are: Stipulations:		
(b)(5)		
		(b)(5)
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(b)(5)
B. Protocols Submitted for Renewal
1. Redacted by agreement Surgery Services for Investigators from Non-NHLBI Institutes, Redacted by agreement
This protocol was unanimously Approved as written.
C. Protocols Requesting a Significant Modification 1. None.
D. Protocols Approved at the April 8 th Meeting
1. Redacted by Angiogenesis and Tissue Remodeling in Mice, Redacted by agreement
2. Behavioral and Molecular Correlates of a Mouse model of
Radiation-Induced Fatigue, Redacted by agreement.
E. Protocols Tabled for Designated Review With Subsequent Revision and
Approval Since the April 8th Meeting
1. None.
F. Protocols Tabled for Re-Review at Next Convened Meeting 1. None.
G. Significant Modifications Approved at the April 8th Meeting
1. Amendment #1 to Redacted by Electron microscopy of juvenile mouse heart,
Amendment #1 to Redacted by agreement Redacted by agreement Electron microscopy of juvenile mouse heart, liver, brain and skeletal muscle, Redacted by agreement Redacted by agreement
H. Significant Modifications Tabled for Designated Review With Subsequent
Revision and Approval Since the April 8th Meeting
1. None.
I. Amendments approved by Designated Member Review per ACUC Policy since
the April 8 th Meeting
1. Amendment #2 to agreement Creation and breeding of genetically altered mice for studies of lipid, lipoprotein metabolism and atherosclerosis, agreement
kedacied by lagreement
2. Amendment #4 to Redacted by agreement Mouse models for bone marrow failure
syndromes and other hematological and non-hematological disorders, agreement
Redacted by annement
3. Amendment #35 tolagreement Chimerism Analysis and Stem Cell Transplantation for the Treatment of Sickle Cell Disease, Redacted by agreement
Transplantation for the Treatment of Sickle Cell Disease,

I.

- J. Amendments approved by Conditional Administrative Process by APD since the April 8th Meeting
 - 1. None.
- K. Amendments approved by Administrative Approval Process since the April 8th Meeting
 - 1. None.

L.	Annual Review	vs: Protocols to Be Continued with no anticipated changes for the
	coming year.	Vote was Unanimous to Approve.

1.	agreement	Apolipoprotein and Lipid Metabolism in Normal,
		eridemic and Transgenic Mice, Redacted by agreement
2.	Redacted by agreement	Stem Cells and Neuro-Vascular Development and Patterning,
	Redacted by agreement	
3.	Redacted by agreement	A mouse model of lung and lymphadic
	lymphangiol	eiomyomatosis, Redacted by
4.		meric Antigen Receptor T-cell (CAR-T) therapy in non-human
	primates, Reda	cted by agreement

M. Annual Reviews: Protocols to Be Closed

1. None.

N. Program Review

- 1. The NHLBI Policy for protocol/amendment process was discussed and approved.
- 2. The OLAW site visit follow-up items were discussed:
 - a) OLAW report for all of the NIH IRP
 - b) NHLBI's specific findings
 - c) a list of compliments to NHLBI extracted from the OLAW report.

Other trans-NIH issues that will also affect us.

- *Counting mouse pups against the protocol. We haven't been doing that, but have started counts for the Redacted by agreement facility. NIH will need to require all facilities to report this to each IC.
- *Vet review of amendments will require an NIH update. However, I think we have already addressed that with our policy revisions at the March and April meetings.
- *Signage guidance from Safety for labs will need to be revised. "In several locations in different IC facilities, biohazard/chemical hazard signage on the door was inconsistent with the hazard at the room or cage level. Consequently, the PPE recommendation on the door may not be appropriate for the hazard being used. Signage should be appropriate and consistent to ensure worker protection."
- 3. Semi-annual Report was reviewed and accepted.

O. Other Business

• Return to Work Plan for NHLBI Animal Program was discussed (see attached)

• AAALAC site visit to NIH has been postponed until the Fall (October).

Date of the Next Meeting:

The date of the next meeting will be held on June 10, 2020 at 1:00 pm

June 10, 2020 Virtual: via WebEx 2:30pm

Me	mb	pers Present
Dr.	Ti	sh Murphy, Systems Biology Center, Chair ACUC
Redact	ed by	agreement
		mes Hawkins, Animal Program Division, APD
Redacte	d by a	greement
		pers Absent
Redacte	ed by a	greement
Gu Redacted		reement
Caacica	by ag	rection.
	•	
Α.		ew Protocols
	Ι.	None.
D	D	otocols Submitted for Renewal
В.	1.	(b)(5)
	1.	
	*	This protocol was Tabled and the decision was unanimous to review the
	•	modifications/changes by the Designated Member Review (DMR) process. T.
		Murphy and J. Hawkins will conduct the DMR. The modifications needed to secure
		final approval are:
		Stipulations:
		(b)(5)
	2.	Redacted by agreement Angiogenesis and Tissue Remodeling in Mice, Redacted by agreement
	*	This protocol was unanimously Approved as written.
	٠	Process was annual about a species as manual
	3.	Redacted by agreement Behavioral and Molecular Correlates of a Mouse model of Fatigue
		induced by Cancer Treatment, Redacted by agreement

	 The focus of this project is fatigue as it relates to patients undergoing cancer treatment. Fatigue is induced in a mouse model using targeted radiation to the abdomen; other model is 5-FU treatment, which is a common cancer treatment used in humans. This protocol was unanimously Approved. Redacted by agreement recused herself from the vote.
	4. Redacted by agreement NHLBI Transgenic/Knockout Mouse Production, Redacted by agreement ↑ This protocol was unanimously Approved with an expiration date of 8/27/2020. Redacted by agreement Redacted by agreement recused himself from the vote.
C.	 Protocols Requesting a Significant Modification Amendment #2 to Redacted by agreement Ivabradine lowers heart rate by selectively inhibiting If channels, Redacted by agreement This amendment was unanimously Approved as written. Redacted by agreement recused herself from the vote.
	Protocols Approved at the May 13 th Meeting 1. Redacted by agreement , Surgery Services for Investigators from Non-NHLBI Institutes, Redacted by agreement
Е.	Protocols Tabled for Designated Review With Subsequent Revision and Approval Since the May 13 th Meeting 1. None.
F.	Protocols Tabled for Re-Review at Next Convened Meeting 1. None.
G.	Significant Modifications Approved at the May 13 th Meeting 1. Amendment #1 to Redacted by Agreement Electron microscopy of juvenile mouse heart, liver, brain and skeletal muscle, Redacted by Agreement Redacted by Ag
н.	Significant Modifications Tabled for Designated Review With Subsequent Revision and Approval Since the May 13 th Meeting 1. None.
I.	Amendments approved by Designated Member Review per ACUC Policy since the May 13th Meeting
	1. Amendment #1 to agreement Mouse models for bone marrow failure syndromes and other hematological and non-hematological disorders, agreement Added a new study to test the therapeutic efficacy of Ruxolitinib in
	models of immune-mediated bone marrow failure. 2. Amendment #6 tdagreement Mouse models for bone marrow failure syndromes and other hematological and non-hematological disorders agreement
	Redacted by Added two more Kinase inhibitors. 3. Amendment #36 to Redacted by agreement hematopoietic cells Redacted by agreement (1) Increased busulfan dosing from 6

	4.	mg/kg/day to 10 mg/kg/day; (2) Added Baculovirus RD; Added Taurolidine-Citrate Solution as a catheter lock solution. Amendment #36 to reacted by Chimerism Analysis and Stem Cell Transplantation for the Treatment of Sickle Cell Disease, Redacted by agreement Added the development of Galectin-1 flox transgenic mice and Galectin-1 knock out mice. Amendment #8 to redacted by Added Studies of Meiotic Drive, Redacted by agreement Added
	٥.	new strains of Peromyscus mice.
J.		mendments approved by Conditional Administrative Process by APD since e May 13 th Meeting
	1.	None.
K.	M	mendments approved by Administrative Approval Process since the May 13 th eeting None.
	co 1. 2. [3. 5. [6. [mual Reviews: Protocols to Be Continued with no anticipated changes for the ming year. Vote was Unanimous to Approve. Redacted by Mouse Breeding Protocol for Preparation of Primary Mouse Melanocytes, Redacted by agreement Neural/Glial Interactions, Redacted by agreement Protocol for Preparation of Primary Mouse Melanocytes, Redacted by agreement Neural/Glial Interactions, Redacted by agreement Functional study of Olfm4 gene in the development, regeneration and neoplastic progression of murine prostate, Redacted by agreement A mouse model for lymphoid malignancies, Redacted by agreement Redacted by Interior Functional Study of OLFM4-RET Fusion Transgenic Mice, Redacted by agreement Redacted by Agreement Studies of Meiotic Drive, Redacted by agreement Studies of Meiotic Drive, Redacted by agreement Redacted by Agreement Studies of Meiotic Drive, Redacted by Agreement
Μ.		nnual Reviews: Protocols to Be Closed None.
N.	Pr 1.	ogram Review None.

Date of the Next Meeting: No ACUC meeting in July

August 12, 2020 Virtual: via WebEx 1:00pm

Members Present	
Dr. Tish Murphy, Systems Biology Center, Chair ACUC	
Redacted by agreement	
D. L. H. Line A. in I.B. and Division ADD	
Dr. James Hawkins, Animal Program Division, APD Redacted by agreement	
Creat	
Guest Redacted by agreement	
A. New Protocols	
1. Redacted by agreement Human renal cell carcinoma (RCC) murine model for the	
evaluation of therapeutic use of antigen specific T cells,	
The objective is to evaluate if the findings seen in the lab can be attainable in a liv	_
organism (mouse), as a preliminary study before translating this into a first-in-hun clinical trial for cancer patients. The tumor cells will be injected SQ into mice.	
PI was reminded that each lot of Matrigel must be tested for rodent pathogens; the	
information should be requested from the manufacturer.	
This protocol was unanimously Approved as written.	
B. Protocols Submitted for Renewal	
1. Redacted by agreement Colony Health Surveillance – Rat,	
This protocol was unanimously Approved as written.	
Redacted by agreement Colores III and III and III Redacted by	
2. Colony Health Surveillance - Mouse, agreement This protocol was unanimously Approved as written.	
• This protocol was unanimously Approved as written.	
3. Redacted by agreement Training of Veterinary Support Personnel and	

Investigators - Mice, Redacted by agreement

	This protocol was unanimously Approved as written.
	4. Redacted by agreement Training of Veterinary Support Personnel and Investigators – Rats, Redacted by agreement
	This protocol was unanimously Approved as written.
	5. Redacted by agreement , NHLBI Transgenic/Knockout Mouse Production, Redacted by agreement Redacted by agreement
	This protocol was unanimously Approved as written. Redacted by agreement recused himself from the vote.
	6. Redacted by Agreement Myocardial Infarct Cardiac Regeneration Model in Rhesus Monkey with iPSC Technology, Redacted by agreement
	This protocol was unanimously Approved as written with an expiration date of 10/30/2020.
	7. Redacted by agreement Virulence of Mycobacterium abscessus toward zebrafish embryos,
	This protocol was unanimously Approved as written with an expiration date of 10/31/2020.
	8. Redacted by agreement Mouse Models of Glycogen Storage Disease Type II: Characterization and Therapy, Redacted by agreement
	This protocol was unanimously Approved as written with an expiration date of 10/30/2020.
	Protocols Requesting a Significant Modification 1. None.
D.	Protocols Approved at the June 10 th Meeting
	1. Redacted by agreement Angiogenesis and Tissue Remodeling in Mice, Redacted by agreement
	2. Behavioral and Molecular Correlates of a Mouse model of Fatigue induced by Cancer Treatment, Redacted by agreement
E.	Protocols Tabled for Designated Review With Subsequent Revision and
	Approval Since the June 10th Meeting
	1. Redacted by Redacted by agreement Redacte
	2. Redacted by agreement A Humanized Sickle Cell Porcine Model for pre-clinical drug testing and other research applications in sickle cell disease, Redacted by agreement
F.	Protocols Tabled for Re-Review at Next Convened Meeting

1. None.

G. Significant Modifications Approved at the June 10th Meeting

1. None.

H. Significant Modifications Tabled for Designated Review With Subsequent Revision and Approval Since the June $10^{\rm th}$ Meeting

1. None.

I.		nendments approved by Designated Member Review per ACUC Policy since June 10th Meeting
		Amendment #7 to agreement Mouse models for bone marrow failure syndromes and other hematological and non-hematological disorders. Redacted by agreement
	2.	Amendment #38 to Redacted by Analysis of Transgenic and Knockout Mice for the Study of Cytokine Signaling Pathways, Redacted by agreement
	3.	Amendment #39 Redacted by Analysis of Transgenic and Knockout Mice for the Study of Cytokine Signaling Pathways,
	4.	Amendment #12 to Redacted by Investigating the genetic mechanisms of cardiovascular diseases and cancer. Redacted by agreement
	5.	Amendment #35 to Redacted by Agreement Gene transfer into non-human primate hematopoietic cells, Redacted by agreement
	6.	Amendment #38 to Redacted by agreement Gene transfer into non-human primate hematopoietic
	7.	Amendment #39 to Redacted by agreement Gene transfer into non-human primate hematopoietic cells, Redacted by agreement
	8.	Amendment #17 to Redacted by Agreement Stem Cells and Neuro-Vascular Development and Patterning, Redacted by agreement
	9.	Amendment #14 to Redacted by agreement Studies of Cardioprotection in Perfused heart and Isolated cardiac myocytes, Redacted by agreement
	10.	Amendment #16 to Redacted by agreement Studies of Cardioprotection in Perfused heart and Isolated cardiac myocytes, Redacted by agreement
	11.	Amendment #18 to Amendm
	12.	Amendment #8 to Redacted by agreement Murine Models of Experimental Asthma, Redacted by agreement
	13.	Amendment #2 to Characterization of hematopoietic and pluripotent stem cells and their derivatives for the development of novel regenerative therapies, Redacted by agreement
	14.	Amendment #12 to Redacted by Amendment #12 to Redacted by Amendment Rhesus Monkey with iPSC Technology Redacted by agreement
	15.	Amendment #16 to Redacted by agreement Genetic Modifiers of Elastin Insufficiency, Redacted by agreement
	16.	Amendment #2 to Redacted by agreement Networks, Redacted by agreement Development and Regulation of Muscle Mitochondrial
		Amendment #26 to Redacted by agreement the role of complement proteins in the immune response, Redacted by agreement in the immune response,
	18.	Amendment #2 to Redacted by channels Redacted by selectively inhibiting If
	19.	Amendment #9 to Redacted by Studies of Meiotic Drive, Redacted by agreement
	20.	Amendment #8 to Mice Models of Nontuberculous Mycobacteria (NTM) Lung Disease, Redacted by agreement

J. Amendments approved by Conditional Administrative Process by APD since the June $10^{\rm th}$ Meeting

1. None.

K. Amendments approved by Administrative Approval Process since the April 8th Meeting

1. None.

L.	Annual Reviews: Protocols to Be Continued with no anticipated changes for the
	coming year. Vote was Unanimous to Approve.
	1. Redacted by agreement Investigation of human iPSC's and their derivatives in the NSG
	mouse model, Redacted by agreement
	2. Redacted by agreement Maintaining and characterizing several mouse lines generated by the
	NHLBI, Redacted by agreement
	3. Redacted by agreement agreement of human cells Redacted by agreement
	4. Redacted by agreement Breeding and Analysis of Myosin 18A knockout mice, Redacted by agreement
	5. Redacted by agreement , Investigations into the role of extracellular vesicles in the
	transmission of viral pathogens, Redacted by agreement
	6. Redacted by agreement Technical feasibility of transmission optical spectroscopy in the mouse
	heart, in vivo, Redacted by agreement
	7. Redacted by agreement Immunodeficient mice for engraftment of human cells Redacted by agreement
	8. Mitochondrial characteristics in metabolically active tissues of the Least
	Shrew, Redacted by agreement
	9. Redacted by Agreement Mice Models of Nontuberculous Mycobacteria (NTM) Lung Disease,
	Redacted by agreement

M. Annual Reviews: Protocols to Be Closed

1. None.

N. Program Review

- 1) For Non-pharmaceutical grade drugs, discussed adding a statement for the purity, grade and stability.
- 2) Discussed the scientific review of NHP protocol which will be performed through the NHLBI Scientific Director.
- 3) Discussed creating an Adoption policy
- 4) Discussed the revised ARAC Guidelines:
- C.3. Changes to Animal Study Proposals -

https://oacu.oir.nih.gov/sites/default/files/uploads/arac-guidelines/c3_asp-changes.pdf

C.6. Review and Approval of Animal Study Proposals (ASP) and Significant

Changes - https://oacu.oir.nih.gov/sites/default/files/uploads/arac-guidelines/c6_review-asp-significant-changes.pdf

- The NHLBI ACUC Policy for Review of Protocols & Amendments was reviewed for the relevant sections for ASP review/significant changes, as relates to the revised ARAC Guideline (C6 Review and Approval of Animal Study Proposals (ASP) and Significant Changes).
- There was unanimous approval by all ACUC members to accept this policy. An email from the one member who had to leave the meeting during this portion of the discussion was received; email stated her approval of this policy. Future members will need to be informed of these policies.

New ACUC Reference Document:

• Example IC Policy for Changes to ASPs (including VVC) https://oacu.oir.nih.gov/sites/default/files/uploads/information-for-acucmembers/example_acucpolicy_changes.pdf

New ARAC Guideline:

 B.19. Investigator-Managed, Small-Scale Zebrafish Facilities -https://oacu.oir.nih.gov/sites/default/files/uploads/arac-guidelines/b19_investigator-managed-zebrafish.pdf

O. Other Business

- 1) Explained that the FOIA for Redacted by agreement baboon transplant protocols has been prepared and is to be sent to the requestor.
- 2) Stated that Protocols which are over 10 years old will be cleared from IASP database.
- 3) Reviewed and Approved the Meeting Minutes from May 13, 2020 and April 8, 2020.

Adjournment: The meeting adjourned at 2:15. The next meeting is scheduled for Wednesday, September 9, 2020 at 1:00 pm via WebEx.

NHLBI ACUC MEETING MINUTES
September 9, 2020
Virtual: via WebEx 1:00pm

	Tish Murphy, Systems Biology Center, Chair ACUC	
	by agreement	
	Y	
Dr. Ja Redacted by	James Hawkins, Animal Program Division, APD	
Gues	est	
	py agreement	
	New Protocols (b)(5)	
1.	• -	
*	,	
*	1	
	modifications/changes by the Designated Member Review (DMR) pro-	cess. T.
	Murphy and J. Hawkins will conduct the DMR. The modifications nee	ded to secure
	final approval are: Stipulations:	
	<u>Supulations.</u> (b)(5)	

	(b)(5)
B. P 1.	Redacted by agreement Redacted by agreement Breeding and Analysis of CARMIL-1 Knock-out mice, Redacted by agreement This protocol was unanimously Approved as written.
2.	Training of Veterinary Support Personnel and Investigators - Pigs, Redacted by Approved as written.
3. *	Virulence of Mycobacterium abscessus toward zebrafish embryos, Redacted by agreement This protocol was unanimously Approved as written.
4. *	Examination of knockout and transgenic mice to define the role of complement proteins in the immune response, Redacted by agreement This protocol was unanimously Approved as written with an expiration date of 11/30/2020.
C. P	Amendment #1 to Redacted by Approved as Written. Redacted by Approved as Written. Redacted by Approved as Written. Redacted by agreement recused herself from the vote.
2.	(b)(5)
*	This amendment was Tabled and the decision was unanimous to review the modifications/changes by the Designated Member Review (DMR) process. T. Murphy and J. Hawkins will conduct the DMR. The modifications needed to secure final approval are: Stipulations: [5)(5)
3. *	Amendment #1 to Redacted by Agreement Primary neuron preparation from mouse embryo brain tissue, Redacted by agreement This amendment was Approved as written.
D. P 1. 2. 3.	Redacted by agreement Colony Health Surveillance – Rat Agreement Colony Health Surveillance – Mouse, Redacted by Agreement Colony Health Surveillance – Mouse, Redacted by Agreement Training of Veterinary Support Personnel and Investigators - Mice, Redacted by agreement

	 4. Redacted by agreement Training of Veterinary Support Personnel and Investigators - Rats, Redacted by agreement NHLBI Transgenic/Knockout Mouse production, Redacted by agreement Agreement Human renal cell carcinoma (RCC) murine model for the evaluation of therapeutic use of antigen specific T cells, Redacted by agreement Tells (Redacted by agreement Tells)
E	Protocols Tabled for Designated Review With Subsequent Revision and Approval Since the August 12 th Meeting 1. None.
F.	Protocols Tabled for Re-Review at Next Convened Meeting 1. None.
G	 Significant Modifications Approved at the August 12th Meeting None.
Н	 Significant Modifications Tabled for Designated Review With Subsequent Revision and Approval Since the August 12th Meeting None.
I.	Amendments approved by Designated Member Review per ACUC Policy since the August 12 th Meeting 1. Amendment #7 to Redacted by agreement raining of Veterinary Support Personnel and Investigators – Mice Redacted by agreement The ability to train staff on performing mouse embryo brain collections was added. 2. Amendment #10 to Redacted by agreement Murine Models of Experimental Asthma, Redacted by agreement An additional experiment was added where both Apoa1 KO mice and wild type, C57Bl/6 mice will be feed either a 60% high-fat diet or a 10% fat diet, as a control.
J.	Amendments approved by Conditional Administrative Process by APD since the August 12 th Meeting 1. Amendment #18 to Redacted by Redacted by Stem Cells and Neuro-Vascular Development and Patterning, Redacted by agreement Two mouse lines were added. 2. mendment #19 to Redacted by agreement Stem Cells and Neuro-Vascular Development and Patterning, Redacted by agreement A mouse line was added. 3. Amendment #11 to Redacted by agreement Studies of Meiotic Drive, Redacted by agreement A mouse line was added.
K	 Amendments approved by Administrative Approval Process since the August 12th Meeting Amendment #21 to Redacted by agreement Studies of Cardioprotection in Perfused heart and Isolated cardiac myocytes, Redacted by agreement Three co-investigators were removed. Amendment #3 to Redacted by agreement Characterization of hematopoietic and pluripotent stem cells and their derivatives for the development of novel regenerative therapies, Redacted by agreement One co-investigators was added and two co-investigators were removed.

3. Amendment #16 toggreement Investigating the genetic mechanisms of
cardiovascular diseases and cancer, Redacted by agreement Two co-investigators were
removed.
removed.
L. Annual Reviews: Protocols to Be Continued with no anticipated changes for the
coming year. Vote was Unanimous to Approve.
1. Redacted by Investigation of human iPSC's and their derivatives in the NSG
mouse model, Redacted by agreement
2. Redacted by Maintaining and characterizing several mouse lines generated by the
NHLBI. Redacted by agreement
3. Redacted by agreement of human cells, Redacted by agreement
4. Generation and characterization of Mucolipin-2 (MCOLN2)
knockout mice, Redacted by agreement
5. Redacted by agreement Breeding and Analysis of Myosin 18A knockout mice, Redacted by agreement
6. Redacted by Analysis of cerebral ischemia in ADP-ribosyl hydrolase transgenic
and knockout mouse, Redacted by agreement
7 Redacted by Investigations into the role of extracellular vesicles in the
transmission of viral pathogens, Redacted by agreement
8. Redacted by agreement , Technical feasibility of transmission optical spectroscopy in the mouse
heart in vive Redacted by agreement
heart in vivo, Redacted by agreement
9. Redacted by agreement Immunodeficient mice for engraftment of human cells, Redacted by agreement
10. Mitochondrial characteristics in metabolically active tissues of the Least
Shrew, Redacted by agreement
11 Redacted by Mice Models of Nontuberculous Mycobacteria (NTM) Lung Disease,
Redacted by agreement

M. Annual Reviews: Protocols to Be Closed

1. None.

N. Program Review

- Discussed the recertification of Biosafety Cabinets in labs + animal procedure areas -- DOHS has informed animal areas that there is a delay in routine BSC certifications due to the shutdown. The current priority is Emergency work, Patient Care, and COVID Research. DOHS will catch up as they can.
- 2) The Fall Semi-annual facility visits will include:
 - a. 1 member for non-USDA species (mice, rats)
 - b. 2 members for USDA covered species (pigs, rabbits, shrews, monkeys)

O. Other Business

1) Discussed the OMS AEP delays for new hires and backlog of TB testing due to COVID.

Adjournment: The meeting adjourned at 1:55 pm. The next meeting is scheduled for Wednesday, October 14, 2020 at 1:00 pm via WebEx.